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EXAMINER

JOSEPH, T

ART UNIT

PAPER NUMBER

2773

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03/17/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.
09/160,503

Applicant(s)

Cappels Et. Al.

Examiner
Thomas Joseph

Group Art Unit
2773



☒ Responsive to communication(s) filed on Sep 24, 1998 ^{2000 RB} ~~2 - 7 - 1999~~

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle* 35 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 1 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claim

☒ Claim(s) 1-43 is/are pending in the application

Of the above, claim(s) 13-20 and 33-40 is/are withdrawn from consideration

☐ Claim(s) _____ is/are allowed.

☒ Claim(s) 1-12, 21-32, and 41-43 is/are rejected.

☐ Claim(s) _____ is/are objected to.

☐ Claims _____ are subject to restriction or election requirement.

Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☒ The drawing(s) filed on Nov 20, 1998 is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some* ☒ None of the CERTIFIED copies of the priority documents have been

☐ received.

☐ received in Application No. (Series Code/Serial Number) _____

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☒ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s) _____

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

Art Unit: 2773

DETAILED ACTION

1. Claims 1-43 are pending in this application. Claims 1, 21, 42 and 43 independent claims.
2. The present title of the inventions is "Apparatus and Method for Handling Special Windows in a Display."

Drawings

3. The drawings are objected to because they fail to show necessary textual labels of features or symbols in Figs. 2 and 5 as described in the specification. For example, placing a label, "window containing a menu", with elements 200 of Fig. 2, would give the viewer necessary detail to fully understand this element at a glance. A *descriptive* textual label for *each numbered element* in these figures would be needed to fully and better understand these figures without substantial analysis of the detailed specification. Any structural detail that is of sufficient importance to be described should be shown in the drawing. Optionally, applicant may wish to include a table next to the present figure to fulfill this requirement. See 37 CFR 1.83. 37 CFR 1.84(n)(o) is recited below:

"(n) Symbols. Graphical drawing symbols may be used for conventional elements when appropriate. The elements for which such symbols and labeled representations are used must be adequately identified in the specification. Known devices should be illustrated by symbols which have a universally recognized conventional meaning and are generally accepted in the art. Other symbols which are not universally recognized may be used, subject to approval by the Office, if they are not likely to be confused with existing conventional symbols, and if they are readily identifiable.

(o) Legends. Suitable descriptive legends may be used, or may be required by the Examiner, where necessary for understanding of the drawing, subject to approval by the Office. They should contain as few words as possible."

Claim Rejections - 35 USC § 102

Art Unit: 2773

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1, 3, 4, 21, 23, and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by McLaughlin (pat. # 5,570,108).

Claims 1 is rejected. McLaughlin teaches a window which can also be interpreted as the presence of a corresponding window manager in a video signal (fig. 1-2). McLaughlin teaches a processor which can be interpreted as a window decoder for extracting spacial window information from said video signal and responsively generating a display control signal (fig. 1, #16, #16e, #11).

Claims 3 is rejected. McLaughlin teaches an apparatus which can be interpreted as including a window decoder implemented as an application-specific integrated circuit(fig. 1).

Claims 4 is rejected. McLaughlin teaches an apparatus containing a target area in said special windows to be specially processed in response to said display control signal and the presence of a window which can be interpreted as the presence of a video interface for transmitting data including said special window information to said display (fig. 2; col. 2, lines 45 - 65).

Claim 21 is rejected. McLaughlin teaches a window on a screen which can be interpreted as the embedding of special window information in a video signal (fig. 2). McLaughlin teaches the presence of icons on the said window which can be interpreted as a method for extracting said

Art Unit: 2773

special window information from said video signal using a window decoder (fig. 2). McLaughlin teaches generating display control signals in response to said window information to enable different processing of said special windows when said icons is interpreted as the said special windows in said display (fig. 2).

Claim 23 is rejected. McLaughlin discloses the user of a window requiring a program implemented on a processing device for use with a specific set of applications which can be interpreted as window decoder that is implemented as an application-specific integrated circuit (fig. 2).

Claim 24 is rejected. McLaughlin discloses a window containing on a video screen containing specific information which can be interpreted as a method specially processing a target area in said special windows in response to said display control signal and transmitting data including said special window information to said display using a video interface (fig. 2).

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) a patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 2 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over McLaughlin (pat. # 5,570,108) as applied to claim 4 above, and further in view of Fisher (pat. 5,903,267).

Art Unit: 2773

Claims 2 and 22 is rejected. McLaughlin teaches the use of a window (fig. 2).

McLaughlin fails to teach that a window manager is an operating system. Fisher teaches that the windows control programs known as OS/2 and windows which can be interpreted as windows managers are also operating systems (col 3, lines 53 -57). It would be obvious to one with ordinary skill in the art at the time of the invention for the step of embedding be performed by a window manager that is included in the operating system to simplify application software development because doing so allows software writers to dedicate their time performing only those tasks which involve customization.

8. Claim 5 - 10, 12, 25-30, 32, and 41-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over McLaughlin (pat. # 5,570,108) as applied to claim 4 above, and further in view of Shafer (pat. # 5,386,247).

Claims 5 is rejected. McLaughlin fails to teach using an RGB matrix which can be interpreted as presence of pixels in a display. Shafer teaches an RGB matrix which can be interpreted as presence of pixels in a display (fig. 4, #102). Shafer teaches a graph which can be interpreted as a first color signal serving as a video clock signal for said special display information (col. 1, lines 45 - 60). Shafer teaches a second color signal including said display information (col. 1, lines 45 - 60). Shafer teaches providing at least two RGB color signals, an auxiliary RGB signal and an main RGB signal (fig. 4). It would have been obvious to one with ordinary skill in the art at the time of the invention to provide two or three RGB signals as taught by Shafer in the window decoder taught by McLaughlin because doing so enhances the ability for a display system to output a multiple number of view ports with greater accuracy.

Art Unit: 2773

Claims 6 is rejected. McLaughlin teaches the use of a special window which can be interpreted as a method for reading key signals including a pattern of bits of said special window (fig. 2). McLaughlin teaches the use of a window which can be understood as the presence of a software program for interpreting as information for encoding a target area position (fig. 2). McLaughlin teaches displaying a window on a display device which can be interpreted as corresponding the target position to a pattern of said pixels depicted on said display device (fig. 2).

Claims 7 is rejected. Shafer teaches the use of a pixel pair which uses an RGB matrix in a display system wherein each member pixel pairs being proximately located, said pixel pairs being colored according to said first color signal, said second color signal, and said third color signal in an additively complementary manner to visually approximate a single pixel of a mixed color (fig. 4).

Claims 8 is rejected. McLaughlin teaches a start sequence indicating a beginning of said key signals (fig. 6, #62). McLaughlin teaches a code sequence distinguishing said key signals from said data (fig. 6-7). McLaughlin teaches a horizontal and vertical offset sequence indicating a boundary of said target area relative to a horizontal position of said key signals (fig. 7, #101-104). McLaughlin teaches a CRC checksum verifying said horizontal offset sequence and said vertical offset sequence (fig. 7, #96). McLaughlin teaches a stop sequence indicating an end of said key signals (fig. 61, #61).

Art Unit: 2773

Claims 9 is rejected. McLaughlin teaches a nondifferential key signal data indicating said start sequences and said stop sequences (fig. 6, #61-62). McLaughlin teaches a differential key signal data indicating remaining components of said key signals (fig. 6).

Claims 10 is rejected. McLaughlin teaches the use number sequences associated with various windows indicating a number of special windows (fig. 3 - 6).

Claims 12 is rejected. McLaughlin teaches a series of button inputs which can be interpreted as a selection sequence indicating a selection from among a plurality of available special processes (fig. 6).

Claim 25 is rejected. McLaughlin teaches a method for processing color and raster data which can be interpreted as a method for depicting pixels in said display, transmitting a first color signal serving as a video clock signal for the special window information, transmitting a second color signal including special window information, and transmitting a third color signal (col. 2, lines 13 - 60). McLaughlin in view of Shafer teach the rationale of claim 25 in rejected claim 5.

Claim 26 is rejected. McLaughlin teaches the presence of a window which requires processing of a pattern of bits corresponding with pixels depicted on a display which can be interpreted as transmitting key signals including a pattern of bits of said special window information to encode a target area position and corresponding to a pattern of said pixels depicted on said display (fig. 2; fig. 6). McLaughlin in view of Shafer teach the rationale of claim 26 in rejected claim 6.

Claim 27 is rejected. McLaughlin teaches a method for processing color which depicts pixel pairs on said display, each member pixel of said pixel pairs being proximately located, said

Art Unit: 2773

pixel pairs being colored according to said first color signal, said second color signal, and third color signal in an additively complementary manner to visually approximate a single pixel of a mixed color (col. 2, lines 13 - 60). McLaughlin in view of Shafer teach the rationale of claim 27 in rejected claim 7.

Claim 28 is rejected. McLaughlin in view of Shafer teach the rationale of claim 28 in rejected claim 8.

Claim 29 is rejected. McLaughlin in view of Shafer teach the rationale of claim 29 in rejected claim 9.

Claim 30 is rejected. McLaughlin in view of Shafer teach the rationale of claim 30 in rejected claim 10.

Claim 32 is rejected. McLaughlin in view of Shafer teach the rationale of claim 32 in rejected claim 12.

Claim 41 is rejected. McLaughlin in view of Shafer teach the rationale of claim 41 in rejected claim 8.

Claim 42 is rejected. McLaughlin in view of Shafer teach the rationale of claim 42 in rejected claim 21.

Claim 43 is rejected. McLaughlin in view of Shafer teach the rationale of claim 43 in rejected claim 21.

9. Claims 11 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over McLaughlin (pat. # 5,570,108) further in view of Shafer (pat. # 5,386,247) as applied to claims 8 and 28 above, and further in view of Priem (pat. # 4,907,174).

Art Unit: 2773

Claim 11 is rejected. McLaughlin further in view of Shafer fail to teach a shape sequence indicating a shape of said target area when said target area is not rectangular. Priem teaches a method or sequence of instructions which can be interpreted as indicating a shape of said target area when said target area is not rectangular (fig. 1; col. 3, lines 19 - 70). It would have been obvious to one with ordinary skill in the art at the time of the invention to provide a shape sequence indicating a shape of said target area when said target area is not rectangular as taught by Priem for the method for using windows as taught by McLaughlin further in view of Shafer because doing so allows the programmer to provide windows and other icons having various shape.


Claim 31 is rejected. McLaughlin in view of Shafer in view of Priem teach the rationale of claim 31 in rejected claim 11.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas Joseph whose telephone number is (703) 305-2277. The examiner can normally be reached on Monday through Friday from 7:30 pm to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matt Kim, can be reached on (703) 305-3821. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-6606.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

tjj/3-14-00



**RAYMOND J. BAYERL
PRIMARY EXAMINER
ART UNIT 2773**